

National Aerospace Laboratories

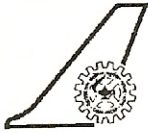
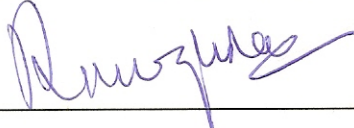
Comparative Evaluation Studies on Glass Micro (Imported)-Vs-Erosil Powder (Indigeneous) used in the Development of Hansa Aircraft.

R M V G K RAO, M RAJENDRA PRAKASH,
F R P Pilot Plant Division

Project Document RP 9905

PD RP 9905

February 1999
Bangalore 560 017, India

	NATIONAL AEROSPACE LABORATORIES	Class : Restricted No. of Copies : 5	
Title : COMPARATIVE EVALUATION STUDIES ON GLASS MICRO (IMPORTED) -VS- EROSIL POWDER (INDIGENOUS) USED IN THE DEVELOPMENT OF HANSA AIRCRAFT			
Author / s : RMVGK Rao, M. Rajendra Praskash,			
Division : FRP Division		NAL Project No. : I-8-112 (c)	
Document No. : PD RP 9905		Date of Issue : February 1999	
Contents		Pages 11	Figures 4
Tables 6		Annexures:	
External Participation :			
Sponsor :			
Approval : Dr. RMVGK Rao Head FRP - Pilot Plant <div data-bbox="904 1174 1253 1300" style="text-align: right;">  </div>			
Remarks : ---			
Keywords: Glass micro, Erosil powder, Instron machine			
Abstract: <p>Glass micro filler in an epoxy resin was being used for bonding of foam to skin in Hansa aircraft shells. This filler has been evaluated for mechanical properties such as tensile strength and four point bending strength, and it has been found best suitable for skin foam bonding. Due to unforeseen circumstances, the supply of micro filler from foreign sources was stopped. Causing a major set back alternate filler, therefore had to be found and to the project progress report presents the results on comparative evaluation of the micro Vs an alternative indigenous available filler called Erosil.</p>			